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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,216	01/12/2006	Isamu Teranisi	Q92077	4047
23373 SUGHRUE MI	7590 04/16/2007 ON, PLLC		EXAMINER	
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			ARANI, TAGHI T	
			ART UNIT	PAPER NUMBER
	•		2139	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
2 MO	NTHS	04/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

21		Application No.	Applicant(s)			
Office Action Summary		10/561,216	TERANISI, ISAMU			
		Examiner	Art Unit			
		Taghi T. Arani	2139			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication, opperiod for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. sely filed the mailing date of this communication.  Of (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on 12 Ja	nuary 2006.				
	<del></del>	action is non-final.				
,	ince this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims					
4)⊠	Claim(s) <u>1-20</u> is/are pending in the application.		÷			
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
*	6) Claim(s) is/are cliewed.					
·	Claim(s) <u>1-20</u> is/are objected to.					
	Claim(s) are subject to restriction and/or	election requirement.				
	on Papers		٠.			
		•				
	The specification is objected to by the Examiner					
10)[	The drawing(s) filed on 19 December 2005 is/ar		•			
	Applicant may not request that any objection to the o	· ·	• •			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	ınder 35 U.S.C. § 119		7.00.001 01 1011111 1 10-102.			
•	•		*			
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
<ul> <li>2. ☐ Certified copies of the priority documents have been received in Application No</li> <li>3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage.</li> </ul>						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
ees the altashed detailed emiss detailed to the defailed copies not received.						
_	. ·					
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Date  5) Notice of Informal Pa				
Paper No(s)/Mail Date <u>12/19/2005</u> . 6) Other:						

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## **DETAILED ACTION**

1. Claims 1-20 have been examined and are pending.

## Claim Objections

2. Claims 1, 4, 7, 8, 11, 12, 19 and 20 are objected to because of the following informalities: The claims in the preamble recite padding scheme that ensures the security of cryptosystems "not using random numbers" to cryptosystems. However, the claims in the body recite supplying the second bit string as "random number input". It is not clear whether the "random number" is or is not being used in the cryptosystems. Appropriate correction is required.

Dependent claims 2-3, 5-6,9-10 and 13-18 are also objected by virtue of their dependencies.

## Conclusion

3. Prior arts made of record, not relied upon:

M. Bellare and P. Rogaway, "Optimal Asymmetric Encryption- How to Encrypt with RSA", Advances in Cryptography- Encrypt 94 Proceedings, Lecture Noted in Computer Science Vol. 950, A. De Santis ed., Springer-Verlag, 1994.

US patent 7,164,765 to Nishioka et al. is directed to a public key encryption secure against a chosen-ciphertext attack.

US 2002/0199001 to Wenocur et al. is directed to system and method for secure response communication session.

US 2004/0078576 to Geitinger is directed to Pseudo random generator with particular application and cryptosystems.

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US 5, 068, 895 to Shimada is directed to encryption/decryption with bit-length preservation.

US 2004/0151307 to Wang et al. is directed to tractable rational map public key system.

US 5,345,507 to Herzberg et al is directed to secure message authentication for binary additive stream cipher systems

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taghi T. Arani whose telephone number is (571) 272-3787. The examiner can normally be reached on 8:00-5:30 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Taghi T. Arani, Ph.D Primary Examiner Art Unit 2131

4/11/2007